

# **MANSFIELD FIRE DEPARTMENT INFORMATION LINE**

## **FIRE INDEX**

### **ABOVE GROUND STORAGE OF MOTOR FUELS**

The above ground storage of motor fuels is prohibited in the City of Mansfield with the following exceptions.

Above ground storage of motor fuels are allowed in certain areas provided they comply with the following provisions:

- 1) The motor fuel must be in an area zoned as an I or C zoning, with the exception of C-2. Above ground storage IS NOT permitted in a C-2 zoning area.
- 2) Tanks can not exceed 1,000-gallon individual and aggregate capacity.
- 3) Above ground tanks must meet the following construction and design criteria:
  - A) Tanks must be UL or FM listed.
  - B) Tanks must be concrete vaulted tanks with a 2-hour minimum fire protection rating. The concrete MUST BE installed at the factory and shall be certified by the manufacturer. Field installation of concrete IS NOT accepted.
  - C) Tanks must contain standard and emergency venting that meets or exceeds the requirement of the current adopted version of the International Fire Code.
  - D) Tanks must be capable of being filled using a vapor tight fill system. No vapors can escape through the fill port during refilling operations.
  - E) Tanks must be equipped with a guillotine flow restricter that will gradually slow and stop the intake of fuel into the tank when the tank reaches 90% of its total capacity.
  - F) Overfill containment basins are required at each fill port.
  - G) Tank and tank enclosure openings are allowed through the top of the tank only. This includes all dispensing operations, which must be taken from the top of the tank.
  - H) Approved anti-siphon devices must be installed at each connection of piping to a tank when the piping extends below the level of the top of the tank.
  - I) All dispensers must be approved; permanently installed pumps designed and equipped to allow control of the flow of fuel, and to prevent leakage or accidental discharge.
  - J) Tanks must be labeled as required by the Fire Department.
  - K) Tanks must meet all requirements of the current adopted version of the International Fire Code, whether referenced in this document directly or not.

- 4) All above ground tanks must be installed in compliance with the following provisions:
- A) The location of the tank must be approved prior to installation.
  - B) The tank must be located a minimum of twenty feet from any source of ignition.
  - C) The tank and any special enclosure must be surrounded by a three-foot clear space.
  - D) Tanks must be placed a minimum of twenty feet from any structure, public street, or adjacent property line. If additional precautions are taken, the twenty-foot distance may be modified.
  - E) Tanks and dispensers must be protected from physical damage through the installation of guard posts or similar approved devices.
  - F) Tanks must be mounted on a six- (6) inch concrete slab; using 3/8" rebar on eighteen (18) inch centers. The slab must extend three (3) feet past all portions of the tank.
  - G) Spill containment must be provided, with a minimum sill height of four (4) inches. Any drain installed to allow removal of rainwater from the containment area must be an approved type of valve and must be plugged.
  - H) A minimum of one (1), ten (10) pound ABC fire extinguisher must be placed within fifty (50) feet of the tank.
  - I) The tank and dispenser must be properly marked and placarded. Markings must include a D.O.T. placard on all four (4) sides of the tank, the name of the product in plain English on all four (4) sides of the tank in letters at least three (3) inches tall, and a sign stating "No Smoking – Stop Engine" visible to all four (4) sides of the tank and dispenser.

This information sheet is designed to provide some basic guidelines only. A plat of the property showing the proposed location of the tank(s) and a product cut sheet on the tank should be submitted to the Fire Prevention Office at 1305 East Broad Street, Mansfield, Texas 76063, prior to any tank being purchased or installed. Questions may be directed to the Prevention Office at (817) 276-4790.